UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,112	08/15/2006	Gary Raymond Bowman	08291-747US1 11344P5 9527 USw/	
26161 FISH & RICHA	7590 12/31/200 ARDSON PC	EXAMINER		
P.O. BOX 1022		LEA, CHRISTOPHER RAYMOND		
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
			1619	
			NOTIFICATION DATE	DELIVERY MODE
			12/31/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PATDOCTC@fr.com

	Application No.	Applicant(s)			
Office Action Commence	10/587,112	BOWMAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Christopher R. Lea	1619			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on					
<i>,</i> —	/ _				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
closed in accordance with the practice under Ex pane Quayle, 1935 C.D. 11, 455 C.G. 215.					
Disposition of Claims					
4) ☐ Claim(s) 64-113 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 64-113 is/are rejected. 7) ☐ Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 07/24/2006. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application Other:					

Art Unit: 1619

DETAILED ACTION

This application is a 371 (national stage application) of PCT/GB2005/000024.

Claims 64-113 are pending. Claims 64-113 are under examination.

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement(s) (IDS) submitted on July 24, 2006, was filed before the mailing date of the first office action on the merits. The submission is in compliance with the provisions of 37 CFR 1.97 & 1.98. Accordingly, the information disclosure statement is being considered by the examiner.

Specification

3. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

Art Unit: 1619

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 72, 73, 86, & 87 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 72 & 86 recite "meat products including blood and fat" which is indefinite. It is unclear how "including" is to be interpreted in the claims, i.e., whether "including blood and fat" limits the claim only to meat products that contain both blood and fat or whether "including blood and fat" is meant as exemplary language. If the former is intended, it would be remedial to amend the claim to replace "including" with "that contain"; if the former is intended, it would be remedial to delete "including blood and fat" or list each item individually. Claims 72 & 86 also recite "egg products including shell and yolk" which is likewise indefinite. Since claims 73 & 87 ultimately depend from claims 72 & 86, they have been rejected under 35 U.S.C. 112 second paragraph as well.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 1619

7. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 9. Claims 64-113 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liers et al. (Medical and Veterinary Entomology, vol. 15, p299-303, cited by applicants on IDS) in view of the Petterino et al. (Veterinary and Human Toxicology, volume 43 issue 6, p353-360) and Jeannin et al. (US Patent 6,162,820).

Applicant claims

Applicant claims a rodenticidal composition comprising fipronil, a second generation rodenticide, and a feeding stimulant. Applicant also claims methods of using such a composition to kill fleas, ticks and their host rodents.

Determination of the scope and content of the prior art (MPEP 2141.01)

Liers et al. teach, as a whole, a composition containing fipronil, bromadiolone (a second generation rodeniticide) and a feeding stimulant as well as methods of controlling fleas and the rats they inhabit.

Claims 64, 69-73, 76, 83-87: Liers et al. teach bait comprising fipronil, bromadiolone (a rodenticide) and crushed wheat (a cereal grain and feeding stimulant) (Materials and Methods section, especially page 300, first full paragraph).

Claims 65-68, 77-82, 90-91: Liers et al. teach fipronil concentrations of 0.0005 and 0.005% and a rodenticide concentration of 0.005% with the remainder being feeding stimulant (Materials and Methods section, especially page 300, first 2 full paragraphs and table 2).

Claims 74 & 88: Liers et al. teach increasing the palatability of the bait by possibly adding rice (a cereal grain, hence an attractant) to the bait (p 303, last full paragraph).

Claims 75 & 89: Liers et al. teach using a solvent (acetone or propylene glycol) in the composition (p 300, third full paragraph and table 2).

Claims 92-113: Liers et al. teach a method of killing fleas and their host rats by providing a bait composition comprising 0.005% (50 ppm) fipronil and 0.005% (50 ppm)

Application/Control Number: 10/587,112

Art Unit: 1619

bromadiolone (a rodenticide) (Materials and Methods section, especially page 300

Page 6

including tables 2 & 3, also Discussion section, Figure 2).

Ascertainment of the difference between the prior art and the claims

(MPEP 2141.02)

The difference between the teachings Liers et al. and the instant claims is that

Liers et al. uses bromadiolone as the rodenticide, whereas the claims select the

rodenticide from the group consisting of brodifacoum, difethialone, flocoumafen and

mixtures thereof. This deficiency in the teachings of Liers et al. is cured by the teachings

of Petterino et al.

Petterino et al. teach bromadiolone, brodifacoum, difethialone, and flocoumafen

are all useful as second-generation, anticoagulant rodenticides (p353, 3rd paragragh).

Petterino et al. also teach that bromadiolone has a higher LD₅₀ against rodents (less

effective as a rodenticide) than brodifacoum, difethialone, and flocoumafen (p355-357,

tables 4, 5, 7, & 8).

The difference between the teachings Liers et al. and the instant claims is that

Liers et al. use the bait composition in a method to kill fleas not ticks. This deficiency in

the teachings of Liers et al. is cured by the teachings of Jeannin et al.

Jeannin et al. teaches, as a whole, methods for controlling ectoparasites with

fipronil. Jeannin et al. specifically teaches that fipronil is useful for killing both ticks and

fleas (column 4, lines 10-15).

Finding of prima facie obviousness

Rationale and Motivation (MPEP 2142-2143)

It would have been *prima facie* obvious to one of ordinary skill in the art at the time the claimed invention was made to substitute brodifacoum, difethialone, or flocoumafen for bromadiolone in the bait and method of Liers et al. as well as using the bait and method against both fleas and ticks and produce the instant invention, because brodifacoum, difethialone, or flocoumafen are art-recognized as more effective rodenticides than bromadiolone and fipronil is art-recognized as both an insecticide and an acaracide. The skilled artisan would have been motivated to use brodifacoum, difethialone, or flocoumafen instead of bromadiolone because the Petterino et al. teach that brodifacoum, difethialone, and flocoumafen are more potent rodenticides. The skilled artisan would have been motivated to use the bait composition taught by Liers et al. against ticks as well as fleas because Jeannin et al. teach that fipronil is effective against both fleas and ticks.

All the critical elements of the instant claims are disclosed. The amounts and proportions of each ingredient are result-effective parameters chosen to obtain the desired effects. It would be obvious to vary amounts of the ingredients to optimize the effect desired, depending upon the particular host species and application method of interest, reduction of toxicity, cost minimization, enhanced, and prolonged, or synergistic effects. Applicant has not provided any objective evidence of criticality, non-obvious or unexpected results that the administration of the particular ingredients' or concentrations provides any greater or different level of prior art expectation as claimed, and the use of ingredient for the functionality for which they are known to be used is not basis for

Art Unit: 1619

patentability. The instant invention provides well-known old art-recognized compounds, with well-known art-recognized effects, applied by well-known art-recognized methods to achieve improved control as is well-known in the art.

In light of the forgoing discussion, one of ordinary skill in the art would have concluded that the subject matter defined by the instant claims would have been obvious within the meaning of 35 USC 103(a). From the teachings of the references, it is apparent that one of ordinary skill in the art would have had a reasonable expectation of success in using brodifacoum, difethialone, or flocoumafen as a rodenticide in the compositions and methods taught and producing the claimed invention. Therefore, the invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

Conclusion

Claims 64-113 are rejected. No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher R. Lea whose telephone number is (571)270-5870. The examiner can normally be reached on Mon-Thu 7:30-5:00 ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on (571)272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1619

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

CRL

/Johann R. Richter/ Supervisory Patent Examiner, Art Unit 1616

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.